

09/287,579

Response to Office Action dated February 2, 2005

IN THE CLAIMS

1-61. (Canceled)

62. (Previously Presented) An electro-optical glazing structure comprising:
an electro-optical glazing panel including liquid crystal material interposed
between a pair of optically-transparent substrates, said electro-optical glazing panel
having an electrically-switchable scattering mode of operation and electrically-switchable
transmission mode of operation; and
an optical static switching mechanism for electrically-switching said electro-
optical glazing panel into said electrically-switchable scattering mode of operation and
into said electrically-switchable transmission mode of operation,
wherein the liquid crystal material comprises a PSCT mixture including a non-
reactive blend of a chiral liquid crystal and a monomer and a surfactant.

63. (Previously Presented) The electro-optical glazing structure of claim 62,
which has total-scattering and total-transmission modes of operation for improved control
over the flow of electromagnetic radiation within the solar region of the electromagnetic
spectrum.

64. (Previously Presented) The electro-optical glazing structure of claim 63, in
which the modes of operation avoid the use of energy absorbing mechanisms.

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65. (Previously Presented) The electro-optical glazing structure of claim 63 which has a broad band of operation, including the near-IR, visible and near-UV portions of the electromagnetic spectrum.
66. (Previously Presented) The electro-optical glazing structure of claim 62, wherein the optically transparent substrates comprise float-glass
67. (Previously Presented) The electro-optical glazing structure of claim 62, wherein said surfactant comprises Poly (Dimethylsiloxane).
- 68-87. (Canceled)
88. (Previously Presented) A PSCT liquid crystal material for an electro-optical glazing structure comprising a non-reactive blend of a chiral liquid crystal and a monomer, and a surfactant.
89. (Previously Presented) The liquid crystal material of claim 88, wherein said surfactant comprises Poly (Dimethylsiloxane).